SOUTH CAROLINA LAW ENFORCEMENT DIVISION

4400 BROAD RIVER ROAD
COLUMBIA, SOUTH CAROLINA 29210

POLICY #: 8.12.7	DATE: 09/01/93	REVISION DATE:
TITLE: IMPLIED CONSENT - BAC DATAMASTER QUALITY CONTROL		PAGE 1 OF 2

RESPONSIBLE AUTHORITY: SPECIAL AGENT IN CHARGE OF FORENSIC SERVICES LABORATORY

RELATED STANDARDS/STATUTES/REFERENCES: S.C. Code of Laws, Section 56-5-2950
S.C. Code of Laws, Section 50-21-114
S.C. Code of Laws, Section 55-1-100
S.C. Code of Laws, Section 56-1-2130

GENERAL PURPOSE: To set forth policies for the administration of implied consent breath alcohol tests.

POLICY: The Division will establish procedures for properly conducting implied consent BAC DataMaster breath alcohol tests.

SPECIFIC PROCEDURES: Each BAC DataMaster is required to pass a quality control inspection by the SLED certified breath test specialist before it is eligible for installation and certification. This inspection is in addition to the quality control inspection performed by the manufacturer before the instrument is shipped to South Carolina. The specific procedures utilized by SLED may vary from inspection to inspection, as long as the instrument meets or exceeds recommended tolerances. It is not required that a record be kept of this inspection, since the certification sheet issued by SLED is evidence that the instrument passed the quality control inspection. The below listed procedures may be slightly modified at the discretion of the SLED certified breath test specialist.

(1) Visual inspection of EPROM's for correct software signature as specified by SLED.

(2) Confirmation of passwords to ensure that proper access is allowed. Operator level passwords allow the operator to only administer a breath test, make a copy of the last test, and change simulator solution.

(3) Identification of printed circuit boards to ensure that only SLED specified boards are used.

(4) Activation of simulator compartment fan and setting of fan activation temperature between 70 and 90 degrees Fahrenheit.

(5) Checking for insulation around Radio Frequency Interference (RFI) antenna base.

(6) Inspection of connection between breath tube and rear panel jack.

(7) Examination of check valves for correct operation.

(8) Inspection of inlet/outlet hoses in simulator compartment.

(9) Verification of simulator temperature of 34 degrees Celsius (C), plus or minus 0.5 degrees, inclusive, by the use of a calibrated thermometer.

(10) Confirmation that voltages on printed circuit boards are within appropriate tolerances.

(11) Checking of the volume requirement to allow for a minimum breath sample of approximately 1.5 liters.

(12) Verification of date and time.

(13) Remote access of instrument using modem and phone line.

(14) Inspection of printouts for legibility.

(15) Calibration of instrument using a 0.10% vapor standard.

(16) Performance of linearity checks using alcohol standards of at least three different concentrations. One standard will be at 0.10%, with one standard of higher concentration, and another standard of lower concentration. At least five simulator tests are performed at each concentration, and the resulting standard error must be within plus or minus 0.005% Blood Alcohol Concentration (BAC) or plus or minus 5% of the expected value, whichever is greater. The standard deviation must be 0.003% BAC or less at a level of 0.10% BAC.